

Create call Test with 3CX Phone System.

To create Loop call test, we need to following steps.

- Upload VAD
- Configure SIP trunk
- Create Inbound Rules
- Create Outbound Rules

Upload VAD

Please upload attached VAD in your 3CX.



LoopCalls.zip

Login to management console → Advanced → Call flow Apps

- Dashboard
- Phones
- Extensions
- Groups
- SIP Trunks
- Inbound Rules
- Outbound Rules
- Digital Receptionist
- Ring Groups
- Call Queues
- Recordings
- Backup and Restore
- Call Log
- Reports
- Security
- Advanced
- FXS/DECT

Call Flow Apps (Beta)

Call Flow Apps

+ Add/Update Delete Show

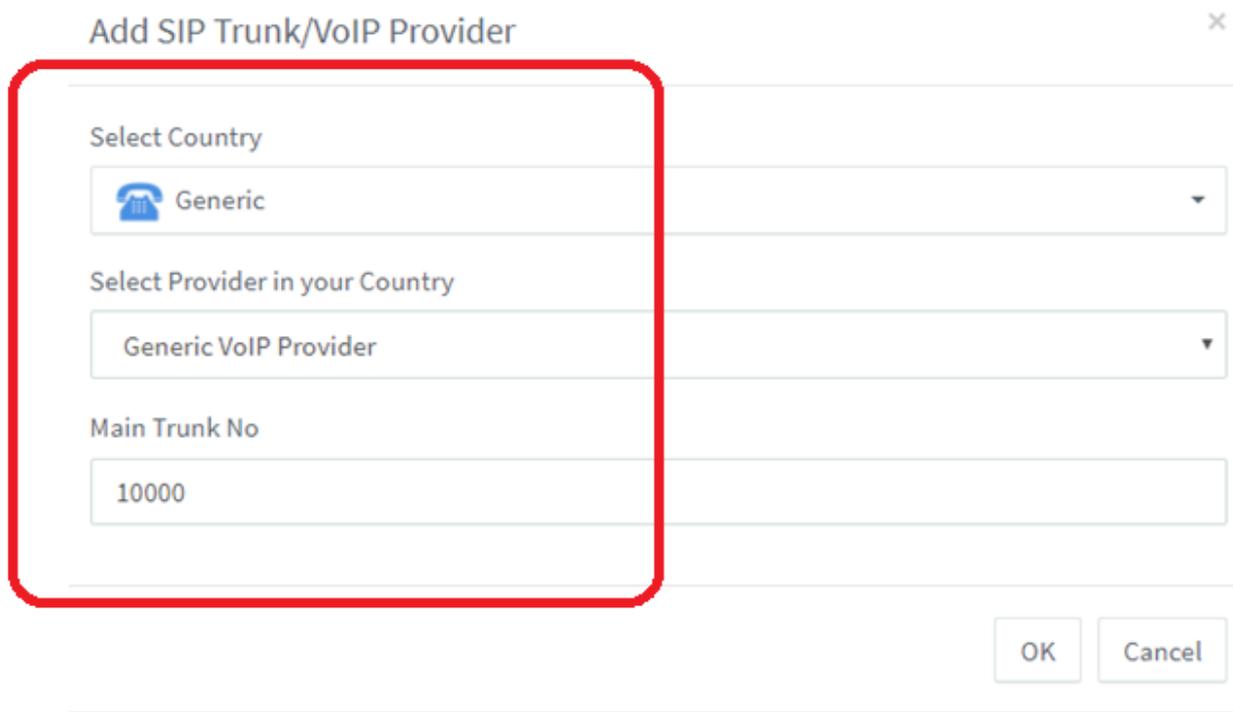
Search ...

<input type="checkbox"/>	Status	Project Name
<input type="checkbox"/>	●	c4c_dev_conf
<input type="checkbox"/>	●	emergencycall
<input type="checkbox"/>	●	loopcalls
<input type="checkbox"/>	●	makecall
<input type="checkbox"/>	●	outgoingmask2
<input type="checkbox"/>	●	pin_auth
<input type="checkbox"/>	●	support_call_flow3
<input type="checkbox"/>	●	support_call_flow4
<input type="checkbox"/>	●	supportaoh1

Configure SIP Trunk

To create loop Trunk, we need to use PBX IP or local IP 127.0.0.1 to configure. Use follows
SIP Server IP: 127.0.0.1 OR PBX Local IP

Go to SIP Trunk → Add SIP Trunk & Follow the below settings



Add SIP Trunk/VoIP Provider

Select Country

Generic

Select Provider in your Country

Generic VoIP Provider

Main Trunk No

10000

OK Cancel

Once Click OK, then use following details to configure the Trunk.

Generic VoIP Provider OK Cancel

General DIDs Caller ID Options Inbound Parameters Outbound Parameters

Trunk Details

Enter name for Trunk
Generic VoIP Provider

Registrar/Server/Gateway Hostname or IP
127.0.0.1

Outbound Proxy
 5060

Number of SIM Calls
10

Authentication

Type of Authentication
Do not require - IP Based

Authentication ID (aka SIP User ID)

Authentication Password

3 Way Authentication Password

Route calls to

Main Trunk No
10000

Destination for calls during office hours
Send Call To Call Flow Apps
loopcalls.Main

Destination for calls outside office hours
Send Call To Call Flow Apps
loopcalls.Main

Set up Specific Office Hours for this trunk

Play holiday prompt when it's a global holiday

Add DID Numbers based on how Many calls you needed. If you need 16 calls you may need to add up to 21 digit 9 . you can add any digits and call from different extension also possible.

Need to change the below outbound parameter.

Generic VoIP Provider

General
DIDs
Caller ID
Options
Inbound Parameters
Outbound Parameters

Outbound Parameters

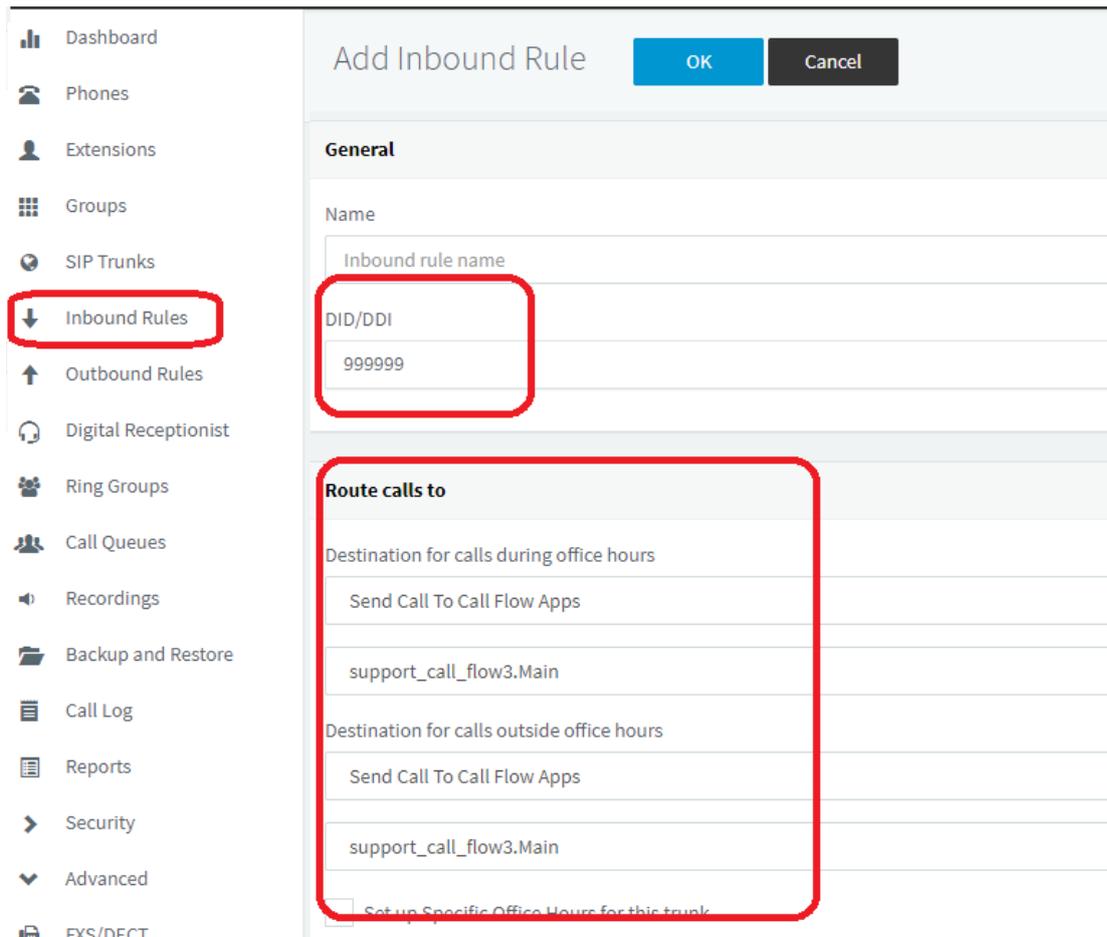
Assign SIP header fields to 3CX Call Variables. Requires advanced SIP knowledge. Misconfiguration will cause your PBX to malfunction

SIP Field	Variable
Request Line URI : User Part	"CalledNum" number that has been dialed (default: To->user) ▼
Request Line URI : Host Part	"GWHostPort" gateway/provider host/port ▼
Contact : User Part	"OutboundCallerId" Outbound caller Id taken from Extension ▼
Contact : Host Part	"ContactUri" usually, content of Contact field ▼
To : Display Name	"CalledName" name that has been dialed (default: To->displa ▼
To : User Part	"CalledNum" number that has been dialed (default: To->user) ▼
To : Host Part	"GWHostPort" gateway/provider host/port ▼
From : Display Name	"CalledNum" number that has been dialed (default: To->user) ▼
From : User Part	"CalledNum" number that has been dialed (default: To->user) ▼
From : Host Part	"GWHostPort" gateway/provider host/port ▼
User Agent : Text String	Leave default value ▼

Once changed. Press Ok

Inbound Rules

Go to Inbound rules and create inbound rule based on the number of calls want to loop.



Add Inbound Rule [OK] [Cancel]

General

Name
Inbound rule name

DID/DDI
999999

Route calls to

Destination for calls during office hours
Send Call To Call Flow Apps
support_call_flow3.Main

Destination for calls outside office hours
Send Call To Call Flow Apps
support_call_flow3.Main

Set up Specific Office Hours for this trunk

<input type="checkbox"/>	DID	Loop Test	9999	loopcalls.Main	loopcalls.Main	<input type="checkbox"/>
<input type="checkbox"/>	DID	Loop Test	99999	loopcalls.Main	loopcalls.Main	<input type="checkbox"/>
<input type="checkbox"/>	DID	Loop Test	999999	loopcalls.Main	loopcalls.Main	<input type="checkbox"/>
<input type="checkbox"/>	DID	Loop Test	9999999	802 RK	802 RK	<input type="checkbox"/>

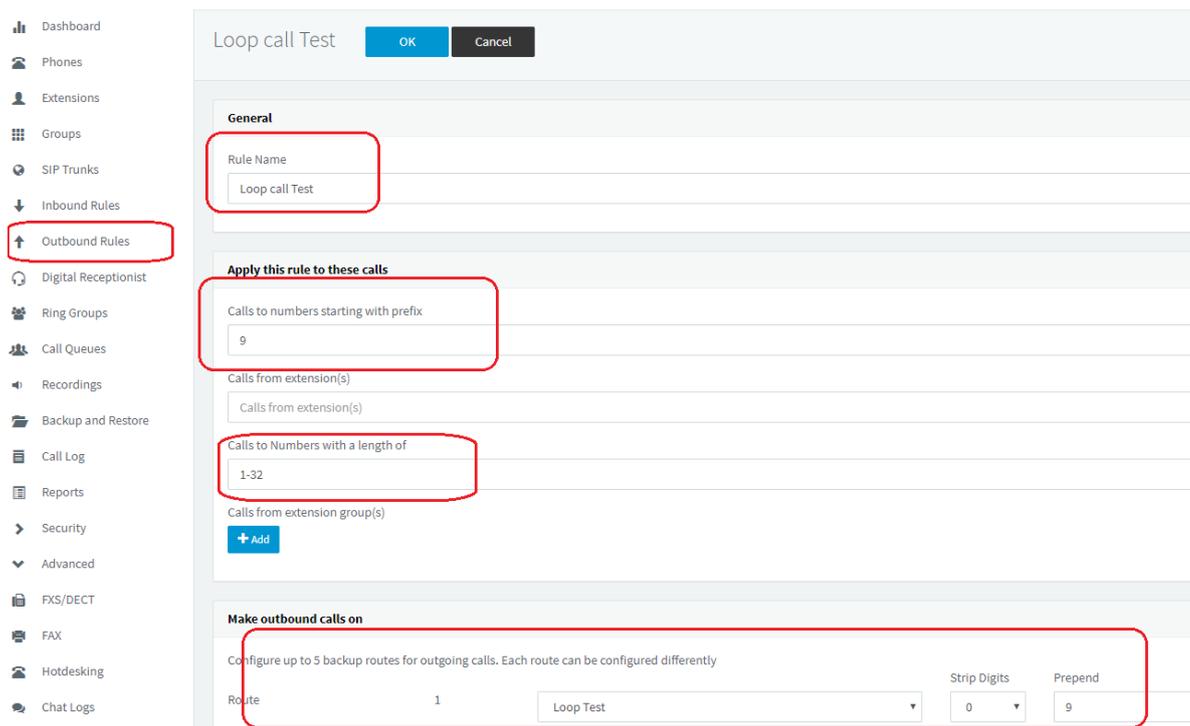
Note: The inbound rule must create & pointed to Call flow apps but final inbound call should be pointed to extension to answer the loop call.

DID & Inbound rules to be create based on how many calls do we need to loop

Single inbound rule considered as 2 SC so above screen short 8 Can loop 8 SC calls.

Create Outbound Rules

Outbound rule we need to use prefix 9 to create outbound rules. If you create multiple digit each digit should have separate outbound rules.



Loop call Test OK Cancel

General

Rule Name
Loop call Test

Apply this rule to these calls

Calls to numbers starting with prefix
9

Calls from extension(s)
Calls from extension(s)

Calls to Numbers with a length of
1-32

Calls from extension group(s)
+ Add

Make outbound calls on

Configure up to 5 backup routes for outgoing calls. Each route can be configured differently

Route	Strip Digits	Prepend
1	0	9

Now You can dial number 9 from your extension. It will get loop finally it reaches the extension based on your inbound rule's configuration. The calls will be hold until disconnected the call.

Thank you